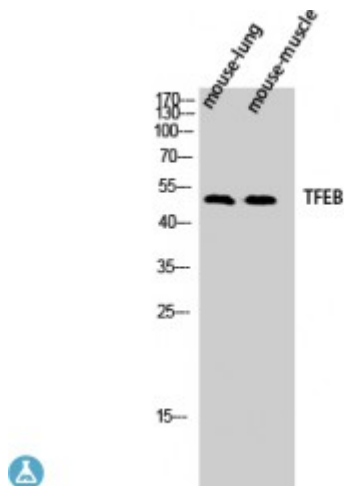


Anti-TFEB antibody



Description	Rabbit polyclonal to TFEB.
Model	STJ95978
Host	Rabbit
Reactivity	Human, Mouse
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human TFEB
Immunogen Region	10-90 aa, N-terminal
Gene ID	7942
Gene Symbol	TFEB
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:20000
Specificity	TFEB Polyclonal Antibody detects endogenous levels of TFEB protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Transcription factor EB Class E basic helix-loop-helix protein 35 bHLHe35
Molecular Weight	52 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG

Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:11753OMIM:600744
Alternative Names	Transcription factor EB Class E basic helix-loop-helix protein 35 bHLHe35
Function	Transcription factor that specifically recognizes and binds E-box sequences (5'-CANNTG-3'). Efficient DNA-binding requires dimerization with itself or with another MiT/TFE family member such as TFE3 or MITF. In association with TFE3, activates the expression of CD40L in T-cells, thereby playing a role in T-cell-dependent antibody responses in activated CD4(+) T-cells and thymus-dependent humoral immunity. Specifically recognizes and binds the CLEAR-box sequence (5'-GTCACGTGAC-3') present in the regulatory region of many lysosomal genes, leading to activate their expression. It thereby plays a central role in expression of lysosomal genes. Acts as a positive regulator of autophagy by promoting expression of genes involved in autophagy. Specifically recognizes the gamma-E3 box, a subset of E-boxes, present in the heavy-chain immunoglobulin enhancer. Plays a role in the signal transduction processes required for normal vascularization of the placenta.
Sequence and Domain Family	The leucine zipper region is essential for homo- or heterodimerization and high-affinity DNA binding. DNA binding is mediated by the basic region.
Cellular Localization	Cytoplasm Nucleus. Mainly present in the cytoplasm . Under aberrant lysosomal storage conditions, it translocates from the cytoplasm to the nucleus . In macrophages, translocates into the nucleus upon live <i>S. enterica</i> infection .
Post-translational Modifications	Sumoylated; does not affect dimerization with MITF.